Fastener Tightening Specifications

Application	Specification Metric	Specification Imperial
Auxiliary Mode Door Actuator to HVAC Module Assembly Retaining Screws	1 N·m	9 lb in
Blower Motor Control Processor to HVAC Module Assembly Retaining Screws	1 N·m	9 lb in
HVAC Control Module to HVAC Module Assembly Retaining Screws	2 N·m	18 lb in
Left Air Temperature Actuator to HVAC Module Assembly Retaining Screws	1 N·m	9 lb in
Mode Actuator To HVAC Module Assembly Retaining Screws	1 N·m	9 lb in
Recirculation Actuator to Air Inlet Assembly Retaining Screws	1 N·m	9 lb in

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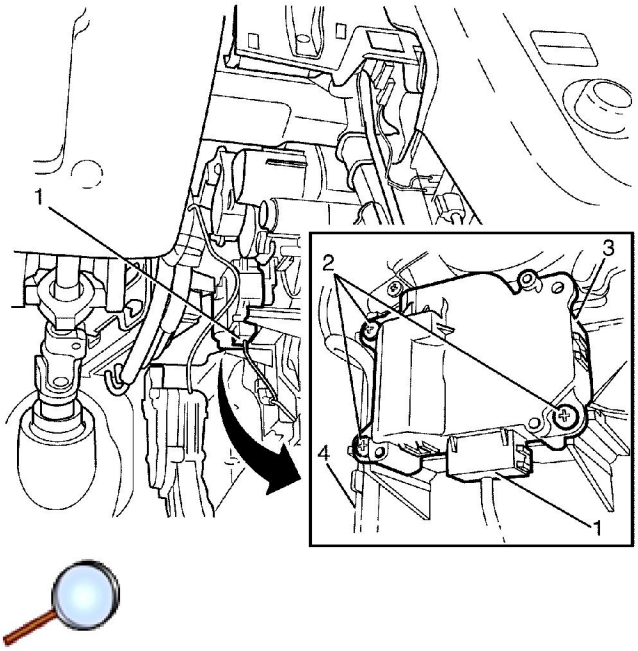
Temperature Valve Actuator Replacement - Left Side

Removal Procedure

1. Remove the knee bolster. Refer to Knee Bolster Replacement.
2. Remove the left close out panel. Refer to Instrument Panel Insulator Panel Replacement - Left Side.
3. Remove the hood release handle. Refer to Hood Primary Latch Release Cable Replacement.
4. Remove the instrument panel retainer. Refer to Instrument Panel Retainer Replacement
5. Remove the left instrument panel extension. Refer to Instrument Panel Extension Replacement.



6. Disconnect the left air temperature actuator electrical connector (1).
7. Remove the left air temperature actuator to HVAC module assembly retaining screws (2).
8. Remove the left air temperature actuator (3) from the HVAC module assembly (4).

Installation Procedure

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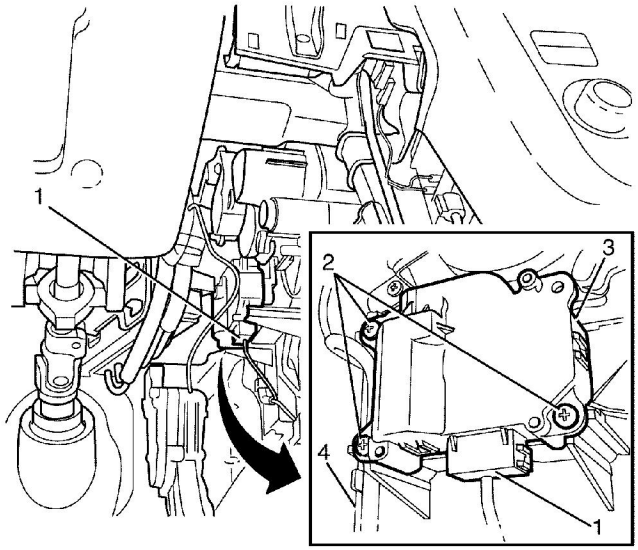


1. Install the left air temperature actuator (3) to the HVAC module assembly (4).

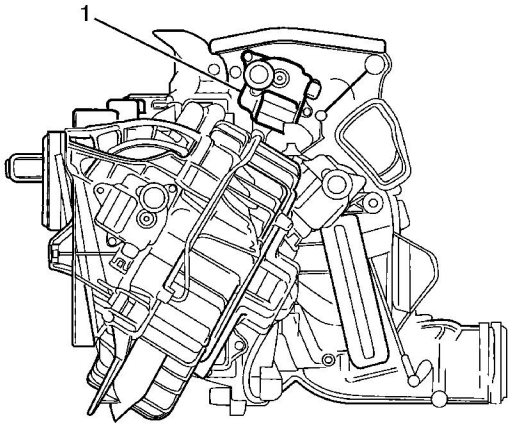
   Caution: Refer to Fastener Caution in the Preface section.

2. Install the left air temperature actuator to HVAC module assembly retaining screws (2) and tighten to **1 N·m (9 lb in)**.
3. Connect the left air temperature actuator electrical connector (1).
4. Install the left instrument panel extension. Refer to Instrument Panel Extension Replacement
5. Install the instrument panel retainer. Refer to Instrument Panel Retainer Replacement.
6. Install the hood release handle. Refer to Hood Primary Latch Release Cable Replacement.
7. Install the left close out panel. Refer to Instrument Panel Insulator Panel Replacement - Left Side.
8. Install the knee bolster. Refer to Knee Bolster Replacement.
9. Perform HVAC system relearn. Refer to HVAC Control Module Programming and Setup.

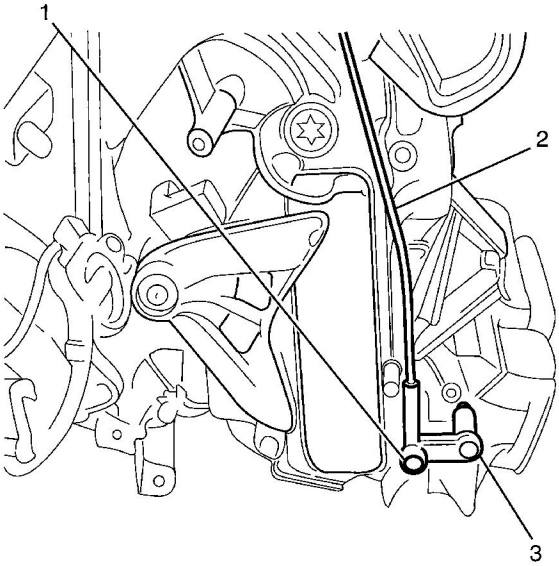
Defroster Valve Actuator Replacement

Removal Procedure

1. Remove the glove box assembly. Refer to Instrument Panel Compartment Replacement.
2. Remove Left side floor duct. Refer to Floor Air Outlet Duct Replacement - Left Side.



3. Locate the defrost mode actuator (1) on the HVAC module assembly, passenger side.
4. Disconnect the electrical connector from the defrost mode actuator.
5. Remove the defrost mode actuator to HVAC module assembly retaining screws.
6. Remove the defrost mode actuator from the HVAC module assembly.



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Note: Squeeze the clip locators together with suitable tool.

7. Remove the rear passenger mode rod clip (1) from the mode door lever to assist actuator replacement.
8. Remove the rear passenger mode lever as one piece from the HVAC module assembly, manoeuvring the rod through the actuator mountings.

Note: Rotate the rear passenger mode rod to match the actuator lever locking position opening, then remove rear passenger mode rod.

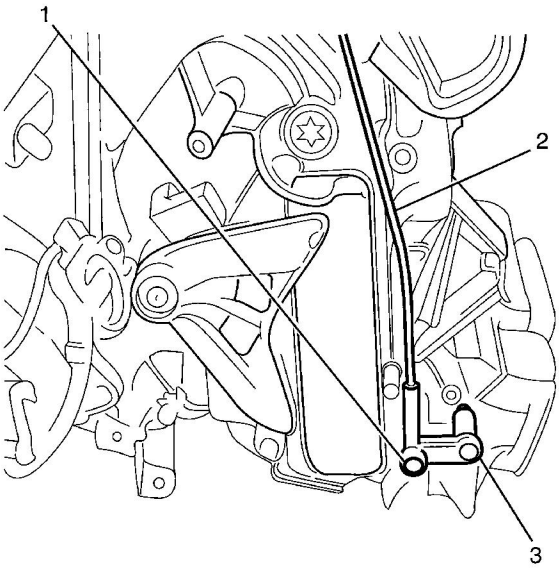
9. Detach the rear passenger mode rod from the defrost mode actuator.

Note: Take note of the rear passenger mode lever position in relation to the actuator housing.

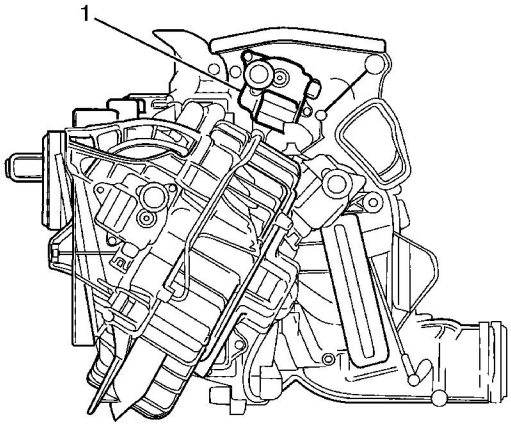
10. Gently remove the rear passenger mode lever from the defrost mode actuator.

Installation Procedure

1. Install the rear passenger mode lever to the defrost mode actuator.
2. Attach the rear passenger mode rod to the actuator.
3. Install the rear passenger mode lever as one piece, manoeuvring the rod through the actuator mountings.



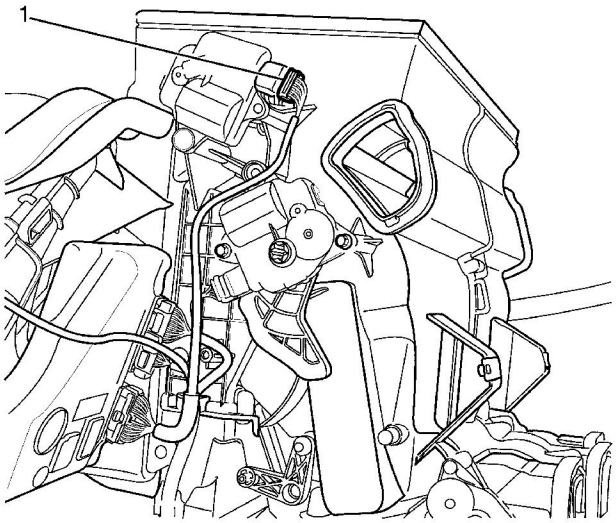
4. Install the rear passenger mode rod (1) clip to the mode door lever.



5. Install the defrost mode actuator (1) to the HVAC.

   Caution: Refer to Fastener Caution in the Preface section.

6. Install the defrost mode actuator to HVAC module assembly retaining screws and tighten to **1.5 N·m (13 lb in)**.

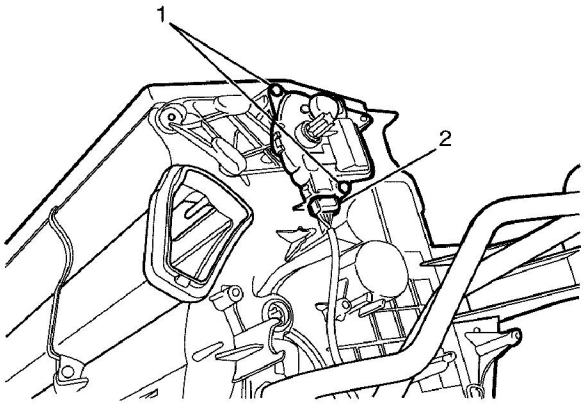


7. Connect the electrical connector (1) to the defrost mode actuator.
8. Install Left side floor duct. Refer to Floor Air Outlet Duct Replacement - Left Side.
9. Install the glove box assembly. Refer to Instrument Panel Compartment Replacement.
10. Perform HVAC system relearn.

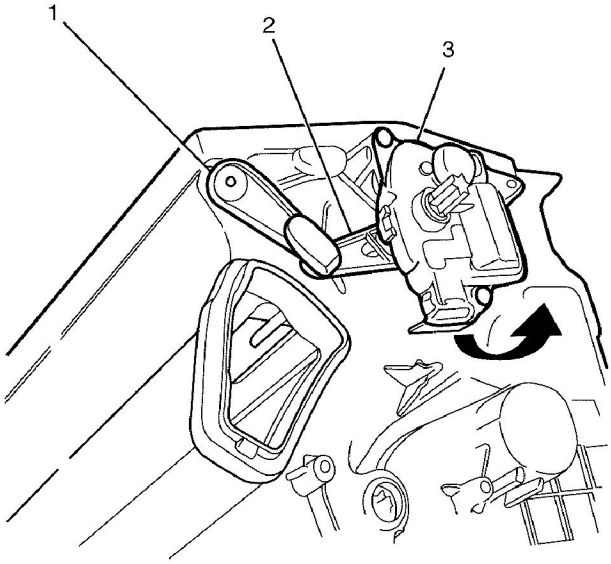
Floor Air Valve Actuator Replacement

Removal Procedure

1. Remove the right side console lower extension. Refer to Instrument Panel Extension Replacement.
2. Remove the instrument panel lower right trim plate assembly. Refer to Instrument Panel Insulator Panel Replacement - Right Side.
3. Remove right side floor duct. Refer to Floor Air Outlet Duct Replacement - Right Side.



4. Disconnect the face/floor actuator electrical connector (2).
5. Remove the face/floor actuator to HVAC module assembly retaining screws (1).



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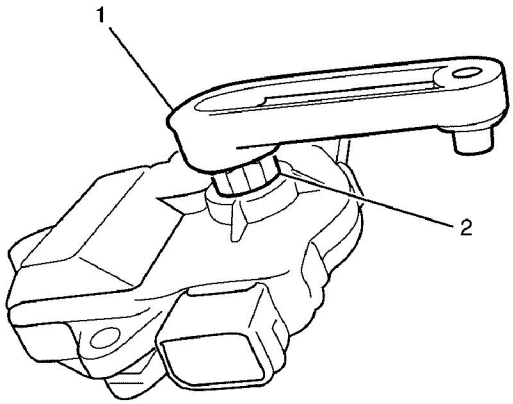
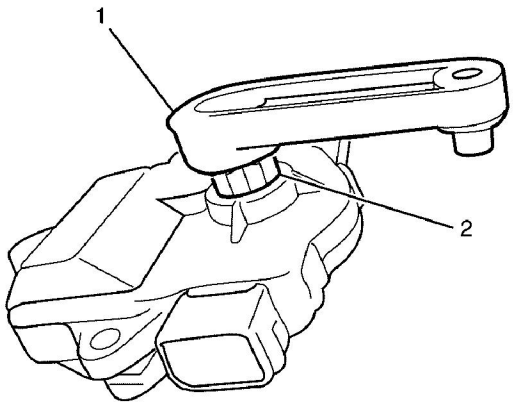
Note: Pivot the face/floor mode actuator (3) upwards and remove the face/floor mode actuator lever (2) from the face door mode lever (1).

6. Remove the face/floor mode actuator lever (2) from the face door mode lever (1).

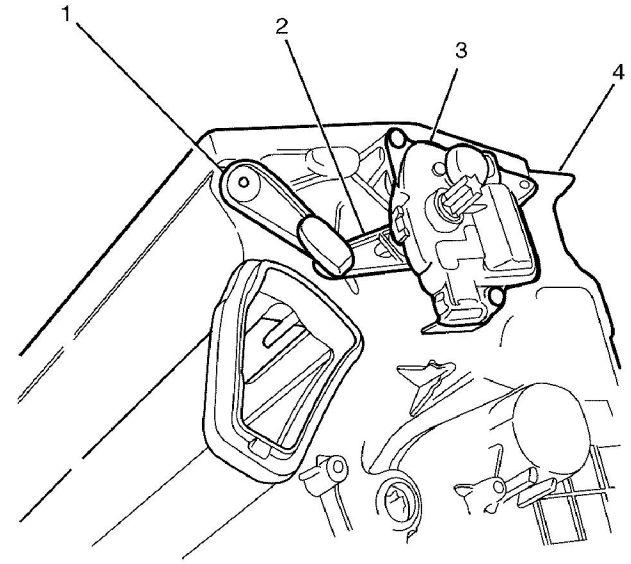


7. Record where the face/floor mode actuator lever (1) is located onto the face/floor actuator drive spline (2) for installation.

Installation Procedure

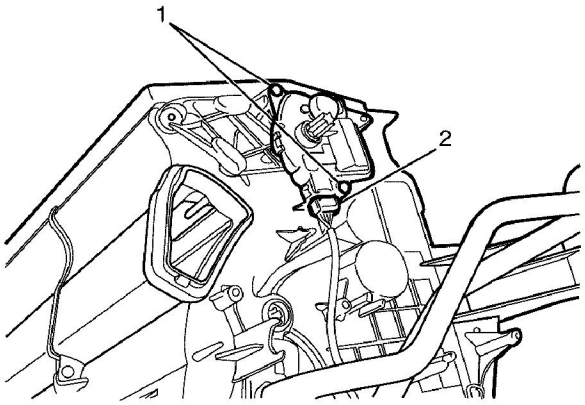


1. Detach and move the face/floor mode actuator lever (1) to the recorded position on the face/floor actuator drive spline (2) as required.



2. Install the actuator lever (2) to the face door mode lever (1) and pivot the face/floor mode actuator (3) into position on the HVAC module assembly (4).

Caution: Refer to Fastener Caution in the Preface section.

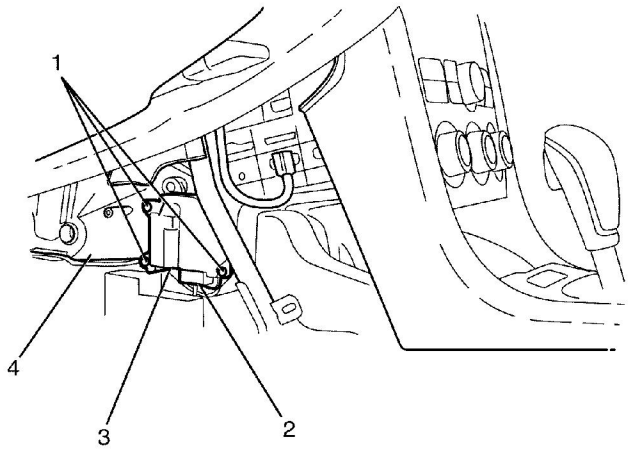


3. Install the face/floor mode actuator to HVAC module assembly retaining screws (1) and tighten to **1.2 N·m (9 lb ft)**.
4. Connect the face/floor mode actuator electrical connector (2).
5. Install the instrument panel lower right trim plate assembly. Refer to Instrument Panel Insulator Panel Replacement - Right Side.
6. Install right side floor duct. Refer to Floor Air Outlet Duct Replacement - Right Side.
7. Perform HVAC system relearn. Refer to HVAC Control Module Programming and Setup.

Mode Valve Actuator Replacement

Removal Procedure

1. Remove the knee bolster. Refer to Knee Bolster Replacement.
2. Remove the left close out panel. Refer to Instrument Panel Insulator Panel Replacement - Left Side.
3. Remove the hood release handle. Refer to Hood Primary Latch Release Cable Replacement.
4. Remove the instrument panel retainer. Refer to Instrument Panel Retainer Replacement.
5. Remove the left instrument panel extension. Refer to Instrument Panel Extension Replacement.



6. Disconnect the auxiliary mode door actuator electrical connector (2).
7. Remove the auxiliary mode door actuator to HVAC module assembly retaining screws (1).
8. Remove the auxiliary mode door actuator (3) from the HVAC module assembly (4).

Installation Procedure

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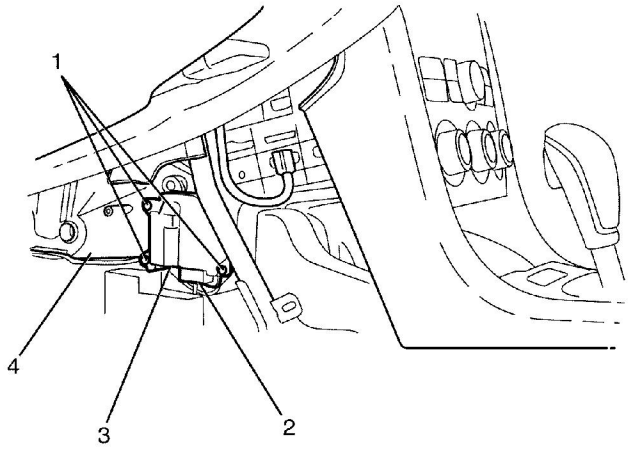


1. Install the auxiliary mode door actuator (3) to the HVAC module assembly (4)..

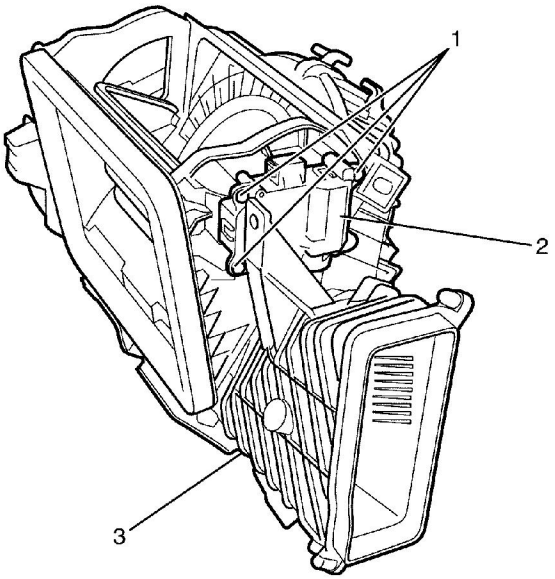
   Caution: Refer to Fastener Caution in the Preface section.

2. Install the auxiliary mode door actuator to HVAC module assembly retaining screws (1) and tighten to **1 N·m (9 lb ft)**.
3. Connect the auxiliary mode door actuator electrical connector (2).
4. Install the left instrument panel extension. Refer to Instrument Panel Extension Replacement.
5. Install the instrument panel retainer. Refer to Instrument Panel Retainer Replacement.
6. Install the hood release handle. Refer to Hood Primary Latch Release Cable Replacement.
7. Install the left close out panel. Refer to Instrument Panel Insulator Panel Replacement - Left Side.
8. Install the knee bolster. Refer to Knee Bolster Replacement.
9. Perform HVAC system relearn. Refer to HVAC Control Module Programming and Setup.

Air Inlet Valve Actuator Replacement

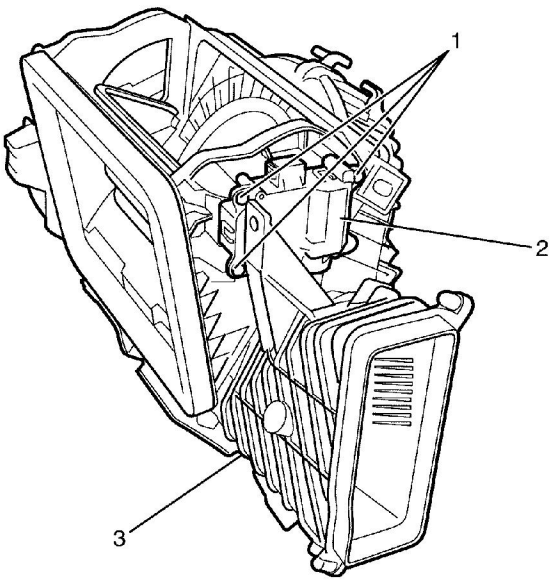
Removal Procedure

1. Remove the air inlet assembly. Refer to Air Inlet Assembly Replacement.



2. Remove the recirculation actuator to air inlet assembly retaining screws (1).
3. Remove the recirculation actuator (2) from the air inlet assembly (3).

Installation Procedure



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1. Install the recirculation actuator (2) to the air inlet assembly (3).

   Caution: Refer to Fastener Caution in the Preface section.

2. Install the recirculation actuator to air inlet assembly retaining screws (1) and tighten to **1 N·m (9 lb in)**
3. Inspect air intake door shaft end for damage, also check the air intake door for full movement, open/close. If damage is evident, replace the air intake housing.
4. Install the air inlet assembly. Refer to Air Inlet Assembly Replacement.
5. Perform HVAC system relearn. Refer to HVAC Control Module Programming and Setup.